

San Diego County Sheriff UAS Unit Training

Overview of CFR Part 107 FAA Practical Exam

The knowledge areas are as follows:

1. Applicable regulations relating to small unmanned aircraft system rating privileges, limitations, and flight operation.
2. Airspace classification, operating requirements, and flight restrictions affecting small unmanned aircraft operation.
3. Aviation weather sources and effects of weather on small unmanned aircraft performance.
4. Small unmanned aircraft loading.
5. Emergency procedures.
6. Crew resource management.
7. Determining the performance of small unmanned aircraft.
8. Physiological effects of drugs and alcohol.
9. Aeronautical decision-making and judgment.
10. Airport operations.
11. Maintenance and preflight inspection procedures.

Airspace Classification

Controlled Airspace: Class B, C, D, E

Uncontrolled Airspace: Class G. Airspace not designated as Class B, C, D, or E.

Reading Aeronautical Charts

Special Use Airspace

1. Restricted areas
2. Warning areas
3. MOA's
4. MTR's
5. Parachute jump operations
6. Wildlife areas / Wilderness areas
7. TFR's
8. Cloud clearance and visibility requirements

Weather Services

Aeronautical Weather Reports and Forecasts

Weather Briefings, METARS, and TAFs

Weather Charts / 1800WXBRIEF

Weather

The atmosphere, pressure, density altitude, performance, wind, air masses, humidity, fronts, stability, temperature/dew point, clouds, thunderstorms

Night Flying

The eye

Visual limitations and illusions

FLIR

Physiological effects and Aeronautical decision-making

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Day One

0800-1000 Introduction of CFR Part 107, airspace classification, aeronautical charts, special use airspace, navigation, our COA and ECOA's.

1000-1200- METAR's, TAF's, and NOTAM's.

1200-1300- Lunch

1300- 1700- Practical flight exercises

Day Two

0800-1000- Review of airspace classification, aeronautical charts, special use airspace, navigation, COA and ECOA's.

1000-1200- Review of METAR's, TAF's, and NOTAM's.

1200-1300- Lunch

1300- 1700- Practical flight exercises

Day Three

0800-1100- Weather

1100-1200- Night flying and FLIR

1200-1300- Lunch

1300- 1700- Practical flight exercises

Day Four

0800-1200- CRM, ADM, physiological factors, aircraft loading and performance, overall review

1200-1300- Lunch

1300-1700- Practical flight exercises

Day Five

Completion of hours and any incidental training.

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Day One

0800-1200

0800 Overview of what CFR Part 107 is and what it includes.

UAV / UAS vs Drone

Flight logs and how to keep record of flight times.

Review the FAA Remote Pilot Small Unmanned Aircraft Systems Study Guide

0830 Two categories of airspace, Controlled and Uncontrolled:

Controlled Airspace: Class B, C, D, E.

Uncontrolled airspace: Class G

Breakdown airspace types and how to determine what type of airspace on a chart.

Chart symbols including VOR's

Sectional Chart vs TAC and scale

COA and ECOA:

Review of our COA and what an ECOA is.

1100 METAR's and TAF's

1200 Lunch break

1300 Practical flight exercises:

Initial flight training maneuvers guide with each person flying the maneuvers twice.

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Day Two

0800-1200

0800 Review of airspace and practical exercises

Chart reading

Latitude and longitude on a chart, isogonic lines, special use airspace; prohibited areas, restricted areas, warning areas, MOA's, MTR's, Parachute jump operations, wildlife areas / wilderness areas, TFR's, cloud clearance and visibility requirements for VFR operations.

Plotting exercises

ECOA exercises

Obtaining a NOTAM

NOTAM exercises

Skyvector and latlong.net exercises

1100 Review of METAR's and TAF's

1200 Lunch

1300 Practical flight exercises:

Initial flight training maneuvers guide for those who did not complete the two minimum flights at the last training. Begin advanced flight maneuvers.

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Day Three

0800-1200

0800

Weather:

Atmosphere

Pressure

Density altitude

Performance

Wind

Air masses

Humidity

Stability / instability

Temperature/dew point

Clouds

Thunderstorms

Weather in relationship with METAR's and TAF's

Weather minimums for flying

1000

Night flying

Night limitations and illusions

FLIR camera and FLIR interpretation

1200

Lunch

1300

Practical exercises and advanced flight maneuvers

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Day Four 0800-1200

0800	UAS weights
	Preflights
	Battery issues
	Maintenance
	Waivers and registration
	Crew Resource Management
	Hazardous attitudes
	Aeronautical decision making
	Physiological factors
	Aircraft loading and performance
	Aerodynamics
	Stalls and load factors
	Airport operations
	Patterns
	CTAF and UNICOM
	Chart supplements US
	Accident reporting and injuries
	Overall review and practice tests
1200	Lunch
1300	Practical exercises and advanced flight maneuvers.